# 3-hour workshop:
# Integrating AI with IBM i


**Jesse Gorzinski**
Senior Business Architect, IBM

# About Jesse

- IBM i operating system development (Rochester, MN)
- Business Architect of Quantum and AI with IBM i

Brags:

- First person in the world to run Node.js on IBM i
- First person in the world to integrate IBM i with a quantum computer
- First person in the world to run deep learning algorithms on IBM i
- Have never lost an argument with a rubber duck

# Today’s modules

- Module 1: AI stack options (IBM and OSS)
- Module 2: Ecosystem Partners

- Module 3: Integration techniques
- Module 4: Running LLMs on IBM i
- Module 5: Agentic AI

# AI Use cases for IBM i

# Use cases: ~~three~~ four broad categories

| | |
|---|---|
| Data Analytics | Trend analysis<br>Anomaly detection<br>Natural language interrogation |
| System Operations | Active monitoring / alerting<br>Natural language administration<br>Self-healing |
| Developer eXperience | Code assistant (help write code)<br>Code chatbots<br>Conversion tools |
| Digital Labor | Automation with AI<br>Agentic AI |

# AI-powered code assistant

**Monday**, June 15

10:30 CEST
- **What is IBM Bob and how can Bob work for you!**
  Tim Rowe

14:00 CEST
- **Meet Bob - Your New AI Software Development Partner**
  Tim Rowe

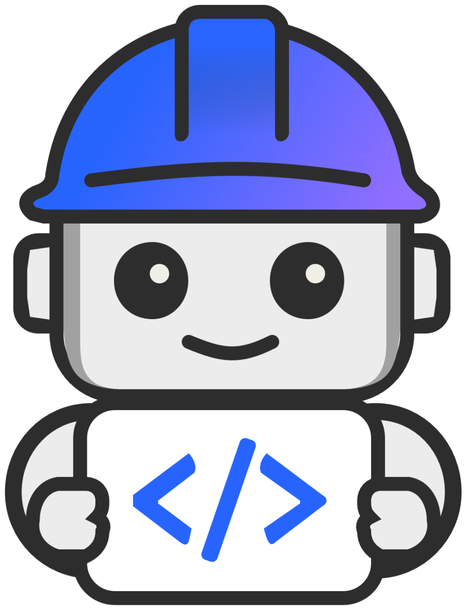
17:05 CEST
- **How to Validate and Control AI Uncertainty from BOB or Any LLM for Reliable Business Outcomes**
  Pascal Polverini

**Tuesday**, June 16

14:00 CEST
- **Build your agentic agile team for your RPG legacy application (Description: Bob)**
  Mauro Sanfilippo • Pascal Geoffrey

**Wednesday**, June 17

08:00 CEST
- **Deep Dive with IBM Bob**
  Benoit Marolleau • Tim Rowe



# Why AI with IBM i?

# Breakthroughs in IBM i history

**1988 → 2030**

Delivered  Jesse's projections

# Breakthroughs in IBM i history

**1988 → 2030**

**1988**

S/36 + S/38 merge

Delivered

Jesse's projections

# Breakthroughs in IBM i history

**1988 → 2030**

**1988**

S/36 + S/38 merge

**1995**

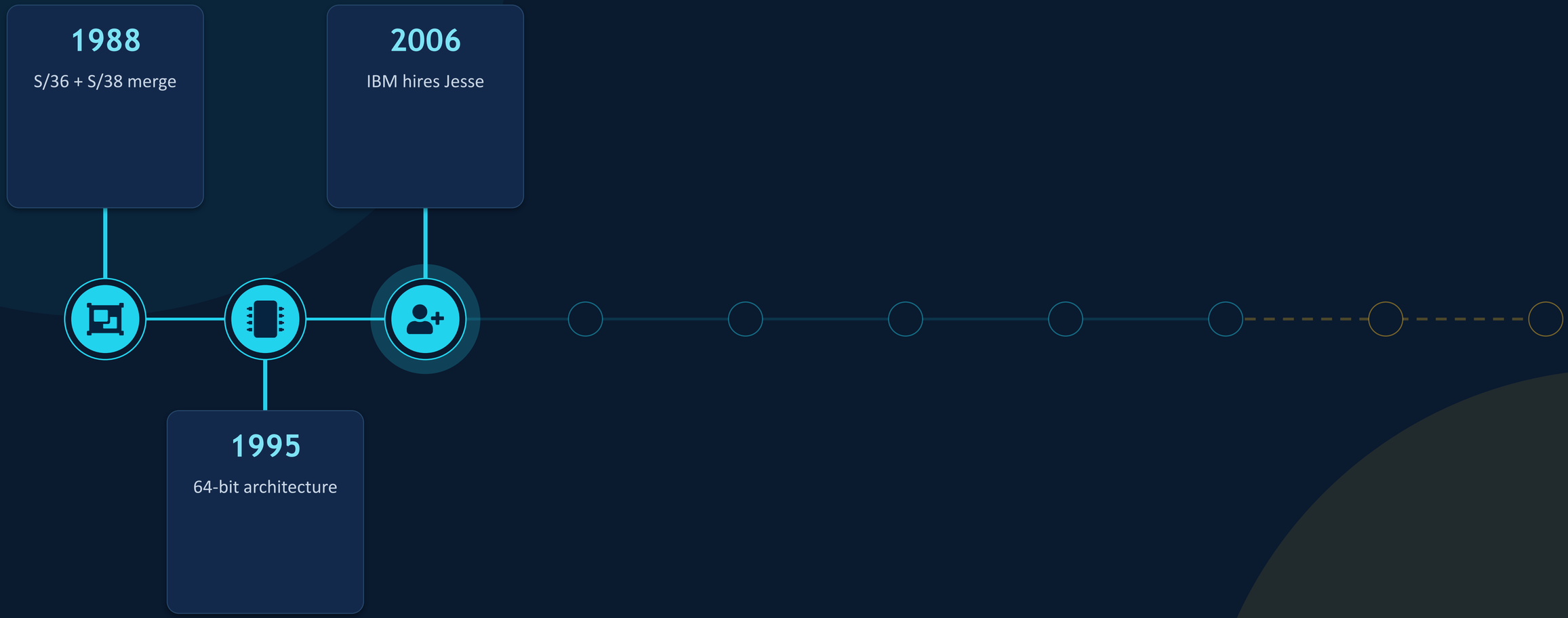
64-bit architecture

Delivered

Jesse's projections

# Breakthroughs in IBM i history

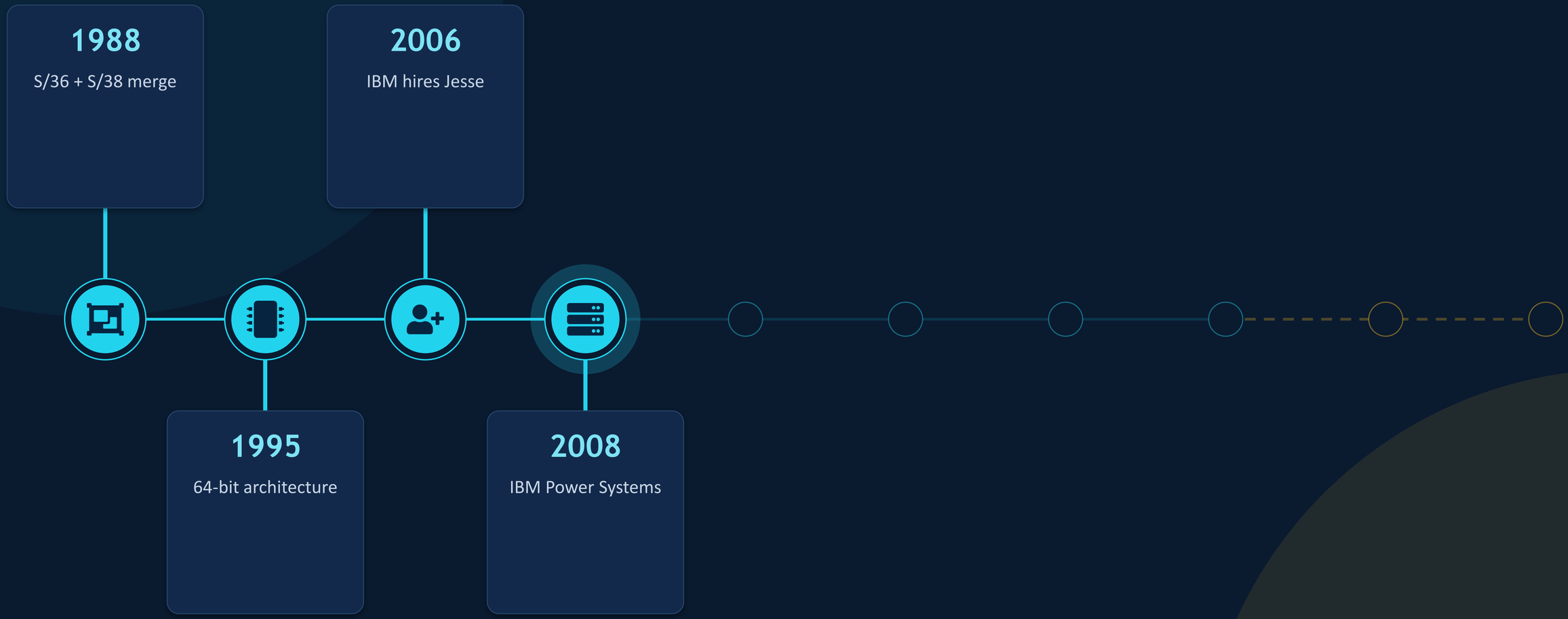
**1988 → 2030**




Delivered  Jesse's projections

# Breakthroughs in IBM i history

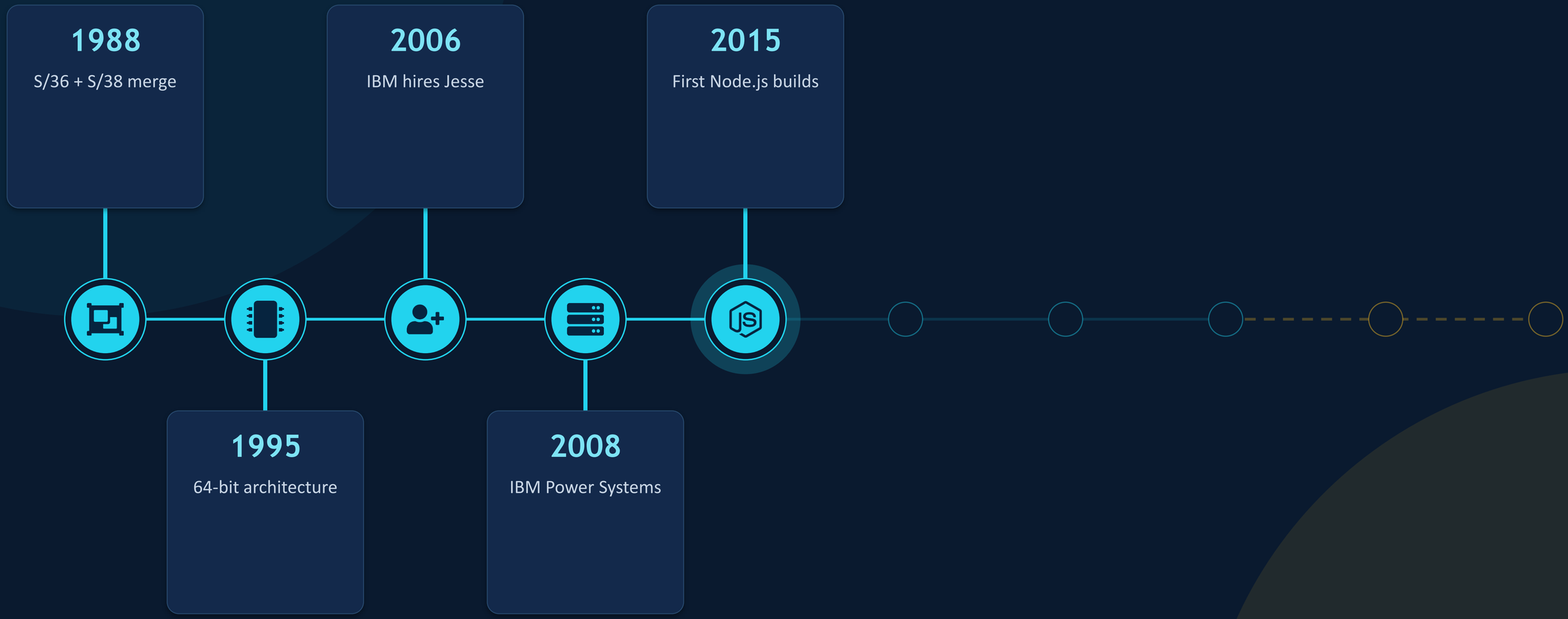
**1988 → 2030**




Delivered  Jesse's projections

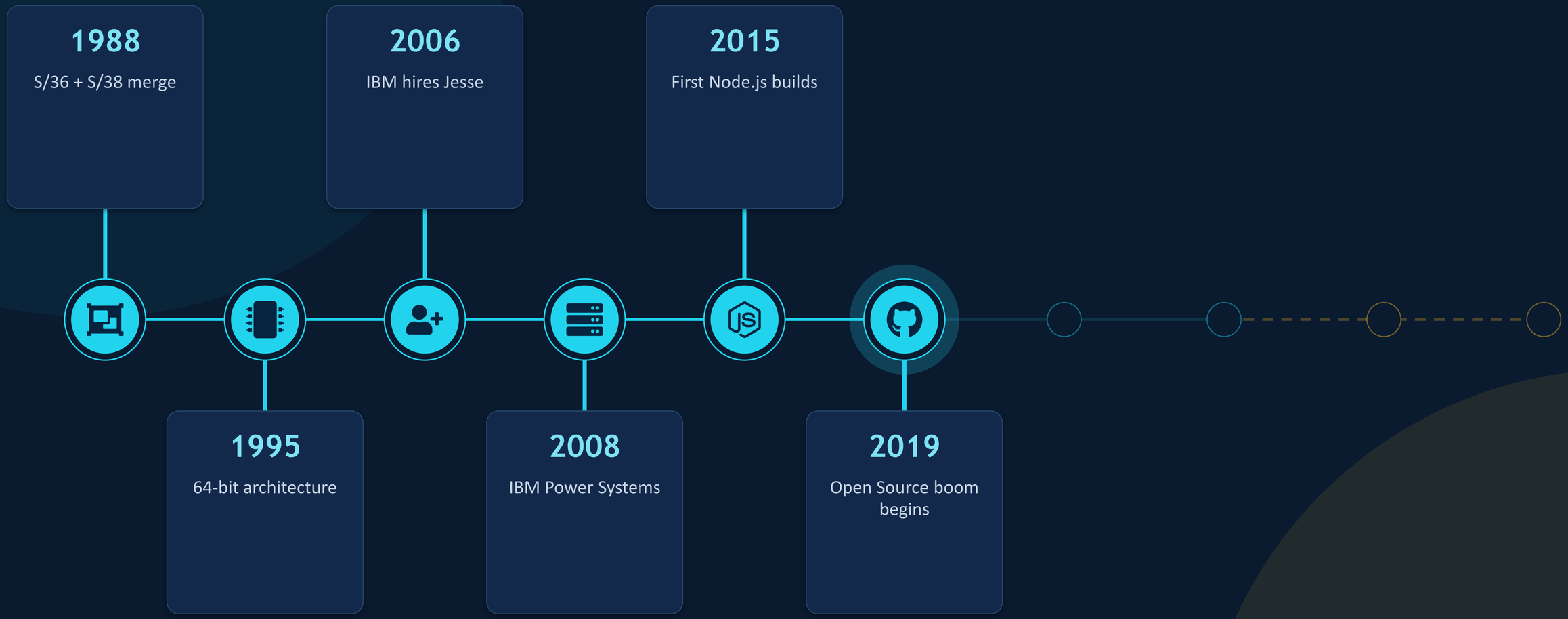
# Breakthroughs in IBM i history

**1988 → 2030**



# Breakthroughs in IBM i history

**1988 → 2030**



# Breakthroughs in IBM i history

**1988 → 2030**

**1988**
S/36 + S/38 merge

**1995**
64-bit architecture

**2006**
IBM hires Jesse

**2008**
IBM Power Systems

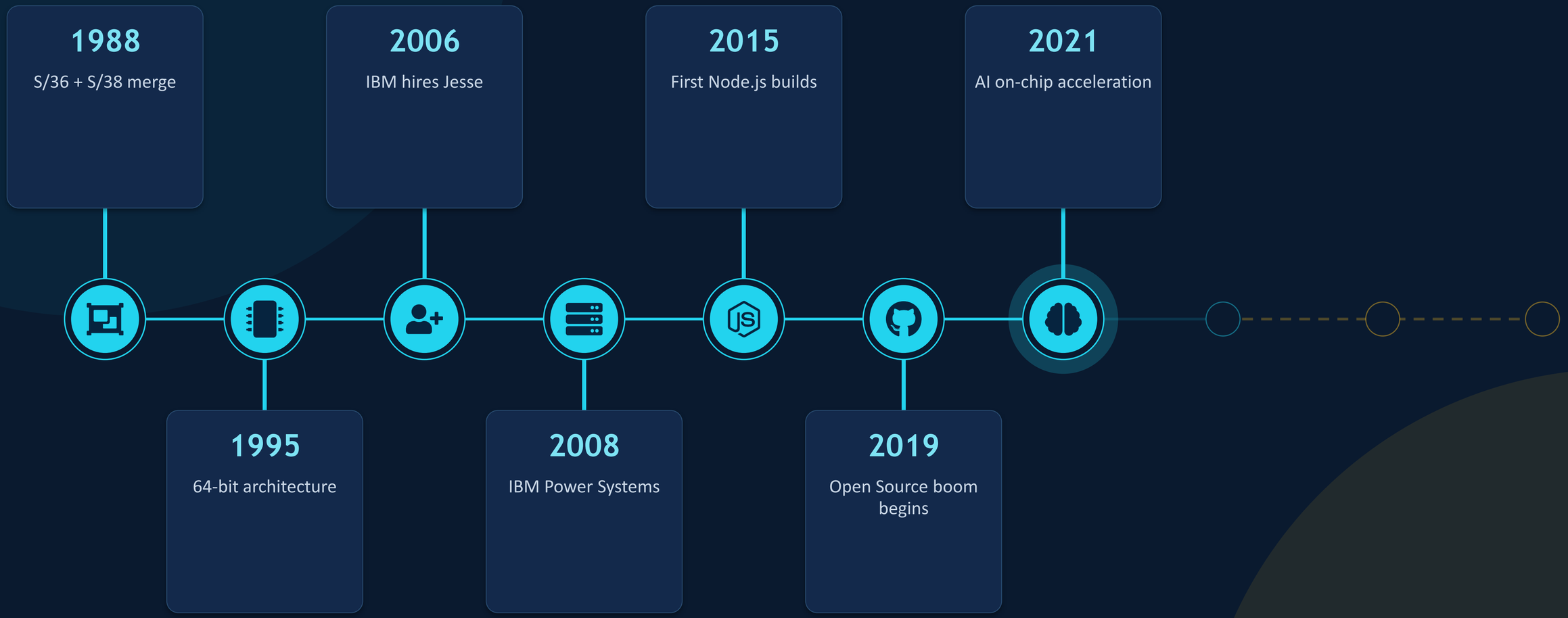
**2015**
First Node.js builds

**2019**
Open Source boom begins

Delivered  Jesse's projections

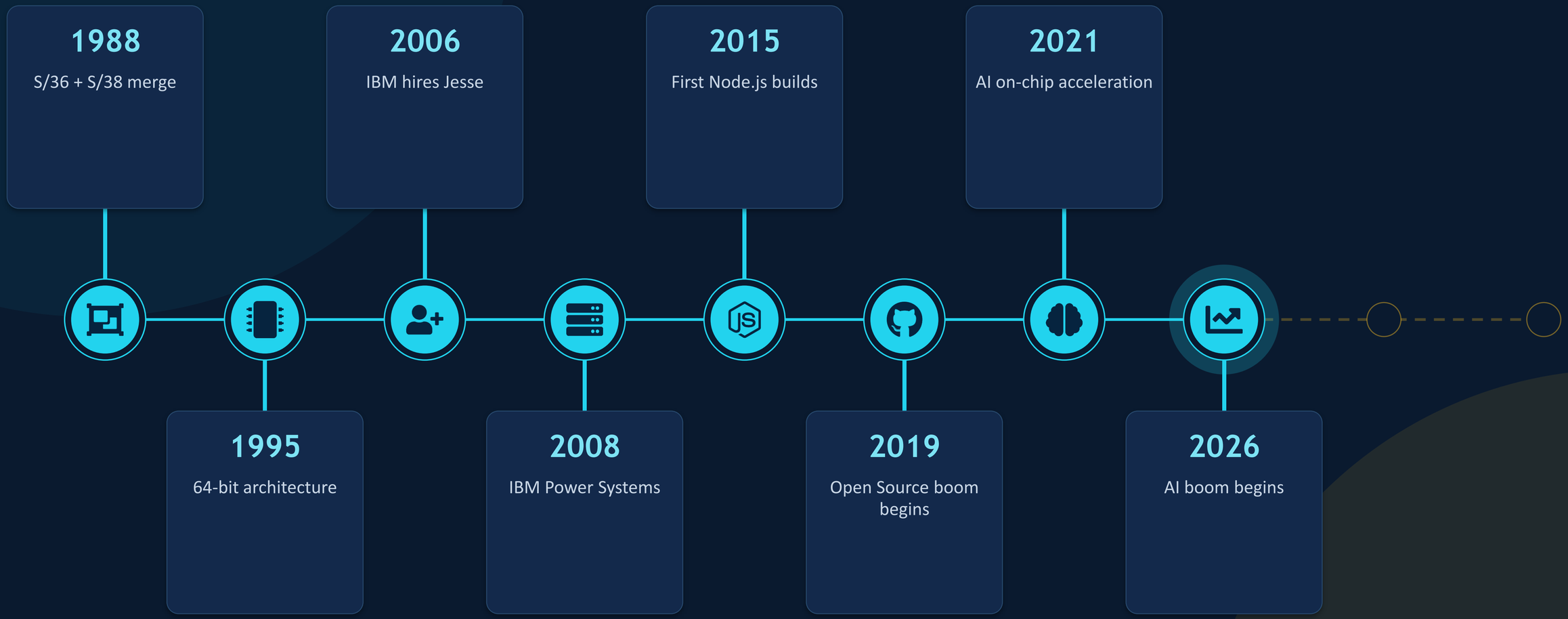
# Breakthroughs in IBM i history

**1988 → 2030**



# Breakthroughs in IBM i history

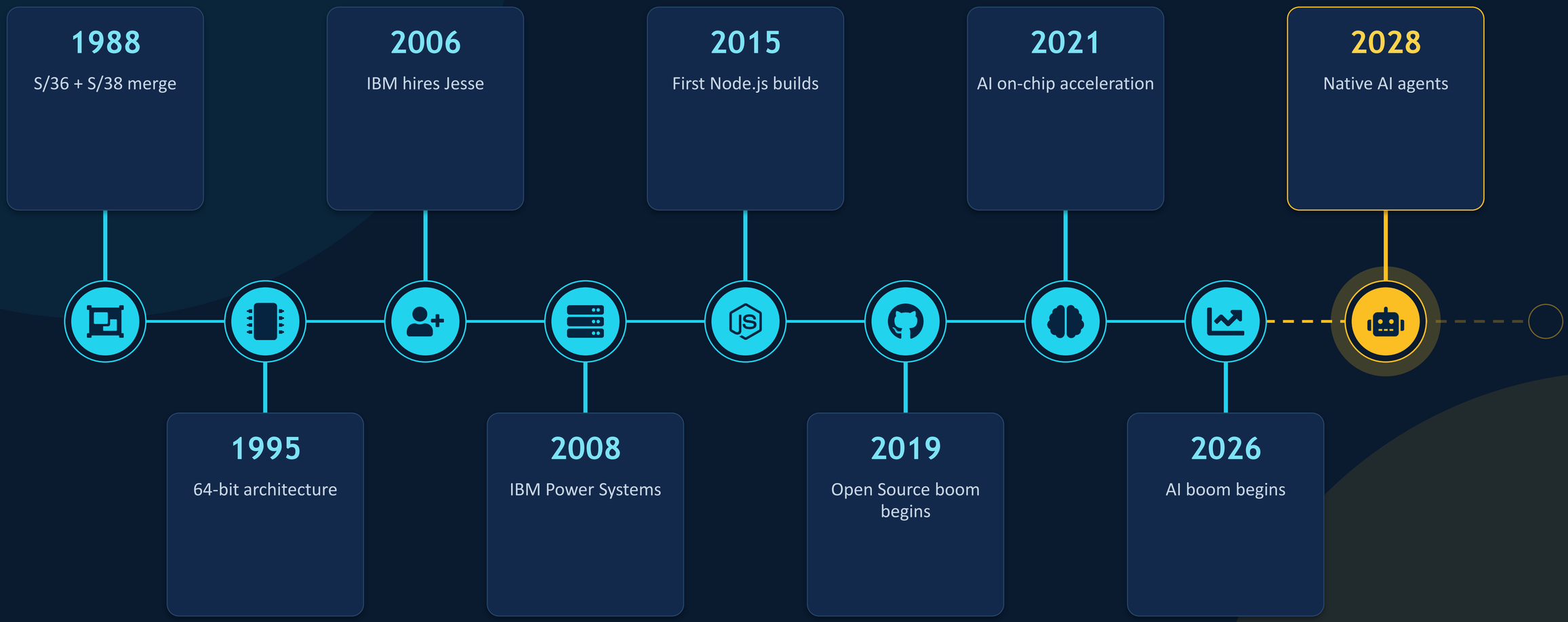
**1988 → 2030**




Delivered  Jesse's projections

# Breakthroughs in IBM i history

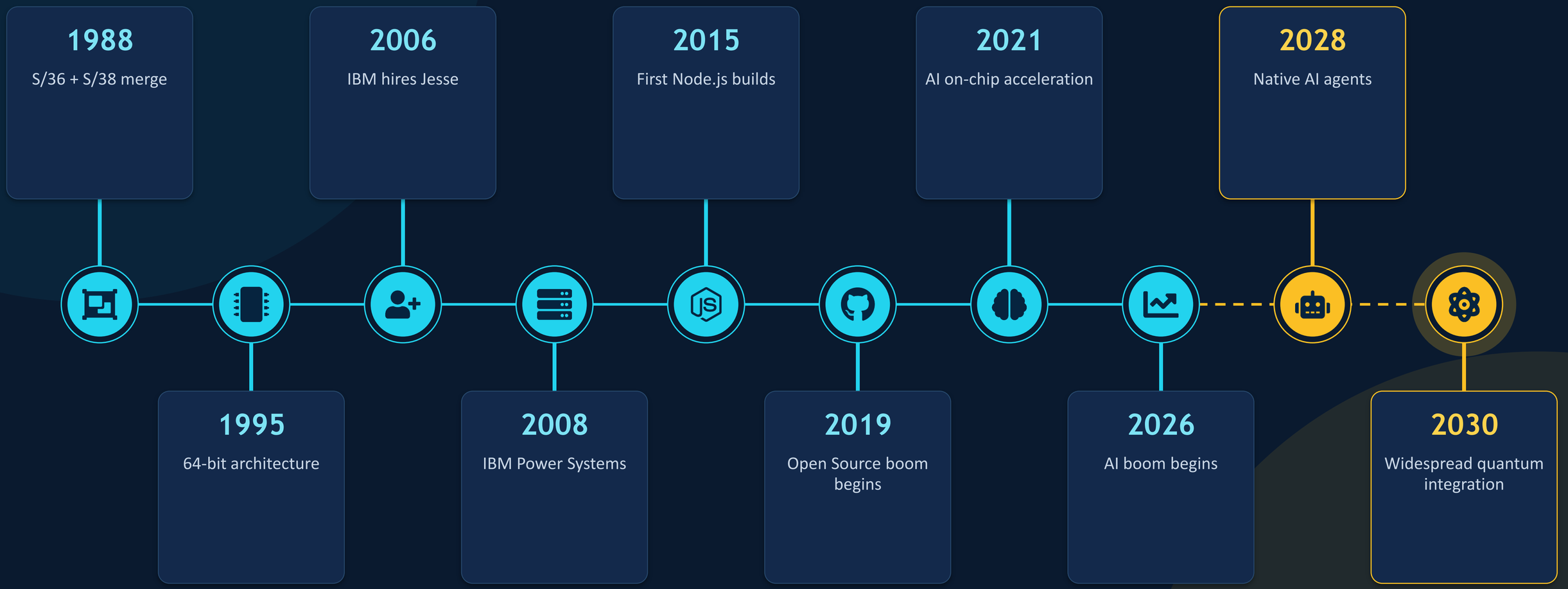
1988 → 2030




Delivered  Jesse's projections

# Breakthroughs in IBM i history

1988 → 2030




Delivered  Jesse's projections

# AI that fits your strategy


ROLEX
ROLEX
ROLEX
ROLEX
2017 FORMULA 1 UNITED STATES GRAND PRIX
Advertiser Screen Time (sec)
Team Screen Time (sec)
IBM PowerAI Vision

# What stops AI projects before they start?

Trust

Data

Regulation

Unknown ROI

# 95% failure rate?

Search

FORTUNE

Subscribe Now

Sign In

## MIT report: 95% of generative AI pilots at companies are failing

BY **SHERYL ESTRADA**
SENIOR WRITER AND AUTHOR OF CFO DAILY

August 18, 2025 at 6:54 AM EDT


GETTY IMAGES

# $22 T

world wide impact of AI solutions by 2030, representing approximately 3.7% of the global Gross Domestic Product (GDP).

Source: IDC – Economic Impact of AI , April 1st, 2025.

# What causes AI projects to fail?

## Lack of Skills

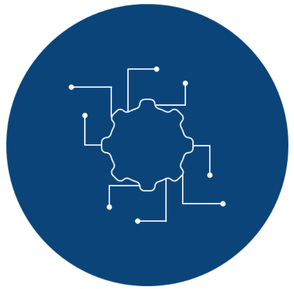
Lack of AI skills and limited knowledge impede successful adoption.

## High Costs

The costs associated with AI and the preparation it requires may be too high.

## Inadequate Tools and Platform

Using AI is challenging without the necessary tools or a platform with which to develop models.



## Complex Projects

When projects are too complicated, it can be challenging to successfully integrate and scale AI systems.

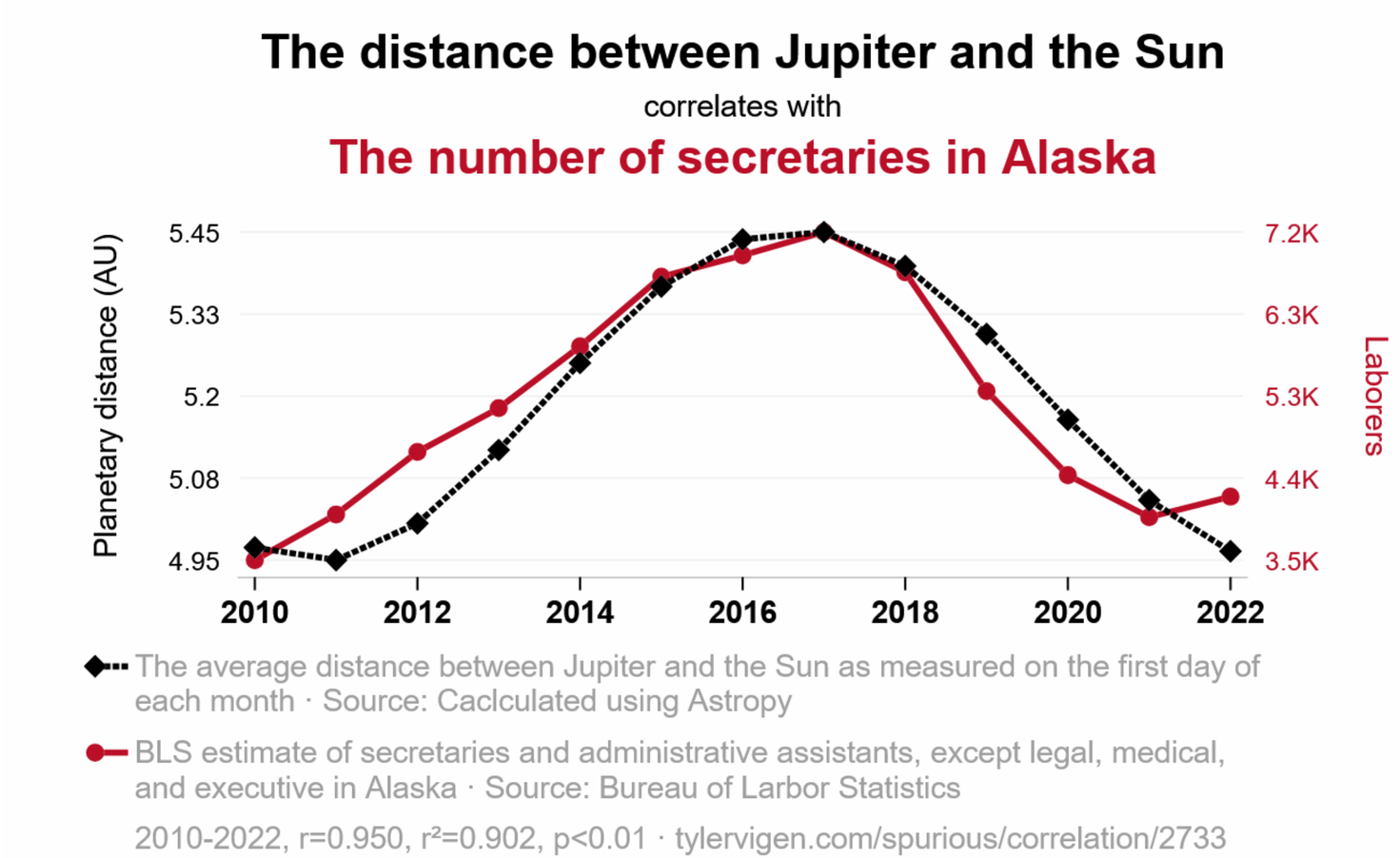
## High Data Complexity

When data complexity is high, AI deployment requires expertise, specialists and significant computing power.

## Confidence

Companies are struggling to assure that AI can act responsibly and can be trusted.

# Data Relevancy




https://www.tylervigen.com/spurious-correlations

# Data Relevancy

51%

Increase in IBM stock price since Jesse has been architect of Artificial Intelligence with IBM i


IBM